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This listing of claims will replace all prior versions and listings of claims in the

application.

LISTING OF CLAIMS

1. (Currently amended) An encoder for compressing image information in the same pass

using both predefined compression codes and compression codes defined during

processing, comprising:

a memory configured to store a predefined compression code corresponding to

one of white image data and black image data; and

a processor configured to receive image data including an input first sequence of

characters representing an image, to read a first character in the input first sequence of

characters, to determine whether that the read first character corresponds to the either one

of the white image data and the black image data, and configured, upon a determination

that the first character does not represent either of a white portion or a black portion of the

image, to generate an output sequence of characters representing the first character

comprising a compression code defined during processing, and otherwise, upon a

determination that the first character does represent one of white image data and black

image data, to read one or more characters occurring immediately subsequent to the first

character in the input first sequence of characters; to determine that the number of

repeated subsequent read one or more characters that match the read first character, and to

generate an second output sequence of characters, including comprising a the stored

predefined compression code, representing the one of the white image data and the black

image datamatching one or more characters.

2. (Canceled)

3. (Currently amended) An encoder according to claim 1, wherein:

the memory is further configured to store a threshold value; and

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the processor is further configured to determine if a value corresponding to the number of characters in the matching one or more characters is equal to or greater than the threshold value, and to generate the second output sequence of characters comprising the predetermined compression code only if the corresponding value is equal to or greater than the stored threshold value, and to generate an output sequence of characters comprising a compression code defined during processing otherwise.

4. (Previously presented) An encoder according to claim 1, wherein:

the processor is further configured to generate the second sequence of characters so as to include a value corresponding to the number of characters in the matching one or more characters.

5. (Currently amended) An encoder according to claim 1, wherein:

the second sequence of characters has a predefined bit length and further includes a continuation code.; and

--- the processor is further configured to generate a third sequence of characters, excluding the store predefined compression code, further representing the matching one or more characters.

6. (Canceled)

7. (Currently amended) A method for compressing image information in the same pass using both predefined compression codes and compression codes defined during processing, the method comprising:

-receiving a first sequence of characters representing an image;

reading a first character in the first an input sequence of characters representing an image;

determining whether that the read first character represents either one of a white portion or and a black portion of the image;

8. (Canceled)

9. (Currently amended) A method according to claim 7, further comprising, upon determining that the first character one of a white portion and a black portion of the image, after the reading step.:

determining if a value corresponding to the number of repeated subsequent characters in the matching one or more characters is equal to or greater than a threshold value; and

wherein the matching one or more characters are represented by the <u>output second</u> sequence of characters <u>comprising the predetermined compression code</u> only if the corresponding value is equal to or greater than the threshold value, <u>and are otherwise</u> represented by an output sequence of characters comprising a compression code defined during processing.

- 10. (Previously presented) A method according to claim 9, wherein the threshold value is defined prior to the reading of the first character of the first sequence of characters.
- 11. (Currently amended) A method according to claim 7, wherein:

the output second sequence of characters further includes a value corresponding to the number of characters in the matching one or more characters.

12. (Currently amended) A method according to claim 7, wherein the second sequence of characters has a predefined bit length and further comprises includes a continuation code, and further comprising:

further representing the matching one or more characters with a third sequence of characters, excluding the predefined compression code.

13. (Canceled)

14. (Currently amended) An imaging system comprising:

a raster image processor configured to receive a first sequence of characters representing an image and to convert the first sequence of characters into a second sequence of characters by reading a first character in a first sequence of characters, determining whether the read first character corresponds to either one of white image data and the black image data, and upon a determination that the first character does not represent either of a white portion or a black portion of the image, generating an output sequence of characters representing the first character comprising a compression code defined during processing, and otherwise upon a determination that the first character does represent the one of white image data and black image data, reading one or more characters occurring immediately subsequent to the first character in the first sequence of characters to determine that the number of repeated subsequent characters that match the read first character and generating an output sequence of characters to represent the one of the white image data and the black image data comprising including a predefined compression code for representing the one of white image data and black image data; and

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an image controller configured to receive the second sequence of characters representing the image and to convert the second sequence of characters into the first sequences of characters based on the predefined compression codes and the compression codes defined during processing.

15. (Canceled)

16. (Canceled)

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17. (Currently amended) A system according to claim 14, wherein:

the raster image processor is further configured to determine if a value corresponding to the number of characters in the first sequence of characters is equal to or greater than a threshold value, and to generate the second sequence of characters comprising the predetermined compression code only if the corresponding value is equal to or greater than the threshold value, and to generate an output sequence of characters comprising a compression code defined during processing otherwise.

18. (Previously presented) A system according to claim 14, wherein:

the raster image processor is further configured to generate the second sequence of characters so as to include a value corresponding to the number of characters in the first sequence of characters.

19. (Canceled)

20. (Canceled)

21. (New) The method of claim 4 wherein the processor is further configured to generate the second sequence of characters so as to include a multi-character value corresponding to the number of characters in the matching one or more characters, each character of the multi-character value comprising a continuation bit.

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22. (New) The method of claim 9 wherein the step of representing the first character and

the determined number of repeated subsequent characters further comprises representing

the first character and the determined number of repeated subsequent characters with an

output sequence of characters comprising a predefined compression code and a count, the

count comprising a multi-byte value, each byte of the multi-byte value comprising a

continuation bit.

23. (New) The method of claim 1 wherein the processor is further configured to repeat

the processing of the received image data substituting the next subsequent character in the

input sequence for the first character.

24. (New) The method of claim 7 wherein the steps are repeated substituting the next

subsequent character in the input sequence for the first character.

The method of claim 24 wherein the steps are repeated with further 25. (New)

substitutions of the next subsequent character for the first character until the entire input

sequence of characters have been processed.